

IN THE CLAIMS

Please amend the claims as indicated:

1- 58 Canceled.

1 59. (new)An apparatus for use while drilling a borehole, said apparatus comprising:

2 (a) a longitudinal member for rotating a drill bit and adapted to be conveyed
3 in the borehole;

4 (b) an acoustic transmitter on a sleeve slidably coupled to said longitudinal
5 member, and

6 (c) an acoustic receiver spaced apart from said acoustic transmitter, said
7 acoustic transmitter disposed on a sleeve slidably coupled to said
8 longitudinal member.

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1 60. (new) The apparatus of claim 59 wherein said sleeve in (b) is the same as the
2 sleeve in (c).

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1 61. (new) The apparatus of claim 59 wherein said acoustic transmitter comprises a
2 three-component transmitter.

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1 62. (new) The apparatus of claim 59 wherein said acoustic receiver comprises a three-
2 component receiver.

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1 63. (new) The apparatus of claim 59 wherein said acoustic transmitter comprises one
2 of (A) a pulse transmitter, and, (B) a swept frequency transmitter.

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1 64. (new) A method of determining a parameter of interest of an earth formation
2 penetrated by a borehole during drilling operations, the method comprising:

3 (a) conveying a bottom hole assembly (BHA) into the borehole, said BHA
4 including a longitudinal member for rotating a drill bit thereon;

5 (b) maintaining an acoustic transmitter on said BHA in a substantially non-
6 rotating position and propagating acoustic signals into said formation;

7 (c) maintaining an acoustic receiver on said BHA in a substantially non-
8 rotating position and receiving an acoustic signal resulting from

9 interaction of said propagating signals with said formation; and

10 (c) determining from said received acoustic signals said parameter of interest.

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1 65. (new) The method of claim 64 wherein said received acoustic signals comprise
2 reflections from a seismic reflector in the vicinity of said borehole.

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1 66. (new) The method of claim 65 wherein said parameter of interest comprises a
2 distance to said seismic reflector,

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1 67. (new) The method of claim 66 further comprising guiding said BHA at least

2 partially in response to said determined distance.

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1 68. (new) The method of claim 64 further comprising maintaining said acoustic
2 transmitter and said acoustic receiver at a specified distance from each other.

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